

Computing Knowledge Progression Grid - EYFS/KS1 - Cycle 1

Key stage 1 - National Curriculum

Pupils should be taught to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

	EYFS	Year 1	Year 2	
Autumn 1	I can name 2 devices used at	Digital Literacy - Online safety/Effective searching on Purple Mash and Ipads. (PM 1.1)		
	school in computing.	I can log in safely with my password and I understand why this is important.		
	(ipad/IWB)	I can create an avatar and I know how it is used.		
		I can create a picture and add my own name to it.		
	I can use a touch screen	• I understand the idea of 'ownership' of creative work.		
	effectively.	• I can save my work to the My Work area and find my saved work.		
		I can add pictures and text to my work.		
		I can log out of purple mash.		
	I can select an icon to load a	• I can search Purple Mash using icons to find resources, tools and gam	es.	
Autumn 2	variety of	Computer Science – Programming (PM1.4)		
	programmes/games.	Digital Literacy (PM1.9)		
		• I can follow instructions to create a model or picture. (eg lego model)		
		I can make simple instructions to create a program.		
		• I can order instructions to solve a problem.		
		•I can find a solution to a problem.		
		•I can give examples of where technology is used to help us in the com	munity.	
Spring 1	I can say what I should do if I	Information Technology - Data (PM1.2)		
	see anything that upsets me	Information Technology – Multimedia (PM 2.6)		
	whilst watching an ipad.	I can group and label objects offline.		
		• I can describe an objects properties and match with similar objects us	sing purple mash activities.	
		I can group objects in more than one way.		
	I can independently use	• I can choose how to record groups (eg a list or table)		
	White Rose One Minute	• I can make marks, lines and patterns using the 2paint programme.		
	Maths.	• I can use a variety of paint tools (eg brushes, pens, colour, shape and	fill) to paint a picture.	



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	Land one a constant of authors	Information Technology, Building dis (DNA 2.5)
19 2	I can use a variety of artistic	Information Technology – Multimedia (PM 2.6)
	effects on 2 paint to create a	Information Technology - Data (PM1.8)
	topic related picture.	• I can create Pointillism art using the Pointillism template.
		I can create art like William Morris using a pattern template.
Ë		• I can explain that we can present information on computers/tablets (e.g on a spreadsheet, pictogram, table)
Spring		I can recognise that objects can be represented as pictures.
		• I can recognise a spreadsheet.
		I can use the tablet to enter data and create a spreadsheet.
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Summer 1	I understand the term "login".	Computer Science – Programming (PM1.7)
		• I can choose a command or instruction for a given purpose.
	I can login to Purple Mash	I can create an event by joining commands together.
	using a pin passcode.	I can explain that coding is the way that instructions are put into computers to create programs.
		• I can use object and action code blocks (eg forwards, left,)
l no		• I can plan a simple program.
07	I can save my work in a folder.	• I can predict what will happen if I change a command.
		Computer Science – Programming (PM2.1)
er 2		I can explain that an algorithm is a set of instructions
		I can read blocks of code and can predict what will happen when it runs.
		I can create a program using collision detection.
Summer		• I can edit a scene by adding, changing or deleting objects.
Ξ		I can explain what debugging means.
Su		• I can debug a simple program.
		- I can acous a simple program.